ELSEVIER

Gene Structure and Expression

Vol. 1261, 1995

BBA Biochimica et Biophysica Acta

Cumulative Contents

Information for Contributors *vii*

Review

The establishment and interpretation of transcription factor gradients in the *Drosophila* embryo
A.J. Courey and J.-D. Huang (USA) 1

Regular Papers

Discordant regulation of transforming growth factor-β receptors by prostaglandin E_2
A. Fine, M.P. Panchenko, B.D. Smith, Q. Yu and R.H. Goldstein (USA) 19

Linkage and expression of the argininosuccinate lyase/δ-crystallin genes of the duck: insertion of a CR1 element in the intergenic spacer
X. Li, G.J. Wistow and J. Piatigorsky (USA) 25

Expression and mutagenesis of recombinant human and murine erythropoietins in *Escherichia coli*
R.M. Bill, P.C. Winter, C.M. McHale, V.M. Hodges, G.E. Elder, J. Caley, S.L. Flitsch, R. Bicknell and T.R.J. Lappin (UK) 35

Characterization of the promoter region of the human *MDR*3 P-glycoprotein gene
J.J.M. Smit, C.A.A.M. Mol, L. Van Deemter, E. Wagenaar, A.H. Schinkel and P. Borst (The Netherlands) 44

Regulation of the human acid β-glucosidase promoter in multiple cell types
R.F. Doll, A. Bruce and F.I. Smith (USA) 57

Chicken βB1 crystallin: gene sequence and evidence for functional conservation of promoter activity between chicken and mouse
M.K. Duncan, H.J. Roth, M. Thompson, M. Kantorow and J. Piatigorsky (USA) 68

Ceruloplasmin gene expression in the rat uterus
T. Thomas, A. Macpherson and P. Rogers (Australia) 77

Molecular characterization of the gene encoding the precursor protein of diapause hormone and pheromone biosynthesis activating neuropeptide (DH-PBAN) of the silkworm, *Bombyx mori* and its distribution in some insects
W.-H. Xu, Y. Sato, M. Ikeda and O. Yamashita (Japan) 83

Ultraviolet irradiation and c-*jun* over-expression regulates replication of polyoma sequences in WOP cells through a PEBP2 binding site
S.E. Rutberg, S.Y. Fuchs and Z. Ronai (USA) 90

Hydrophobic DNA binding of esperamicin requires conformational distortion of the host DNA
M. Uesugi, T. Kusakabe and Y. Sugiura (Japan) 99

Heavy-metal modulation of the human intercellular adhesion molecule (ICAM-1) gene expression
S. Martinotti, E. Toniato, A. Colagrande, E. Alesse, C. Alleva, I. Screpanti, S. Morrone, S. Scarpa, L. Frati, A.C. Hayday, F. Piovella and A. Gulino (Italy, USA) 107

Inhibition of moloney murine leukemia virus reverse transcriptase by partially 5-thiolated polyuridylic acid
S. Tőkés and J. Aradi (Hungary) 115

Short Sequence-Papers and Promoter Paper

cDNA cloning of a putative G protein-coupled receptor from brain
S. Hata, Y. Emi, T. Iyanagi and T. Osumi (Japan) 121

A full-length cDNA encoding mouse adrenodoxin
M. Stromstedt and M.R. Waterman (USA) 126

Primary structure of a folate-dependent trifunctional enzyme from *Spodoptera frugiperda*
G.B. Tremblay and R.E. MacKenzie (Canada) 129

$GABA_A$ receptor β_1, β_2, and β_3 subunits: comparisons in DBA/2J and C57BL/6J mice
G.L. Kamatchi, P. Kofuji, J.B. Wang, J.C.R. Fernando, Z. Liu, J.R. Mathura Jr and D.R. Burt (USA) 134

Cloning and sequence analysis of a novel member of the single-stranded DNA binding protein family
B.A. Rikke, R.L. Vellanoweth, S. Her, B. Chatterjee and A.K. Roy (USA) 143

Molecular cloning of the *Drosophila* homologue of the rat ribosomal protein L11 gene
S. Larochelle and B. Suter (Canada) 147

Molecular cloning and nucleotide sequence of the protyrosinase gene, *melO*, from *Aspergillus oryzae* and expression of the gene in yeast cells
Y. Fujita, Y. Uraga and E. Ichisima (Japan) 151

Differential expression of the two types of histone H2A genes in wheat
G.H. Huh, Y. Matsuura, T. Meshi and M. Iwabuchi (Japan) 155
Isolation of *CYP3A5P* cDNA from human liver: a reflection of a novel cytochrome *P*-450 pseudogene
J.D. Schuetz and P.S. Guzelian (USA) 161
Characterization of a promoter region supporting transcription of a novel human β-galactoside α-2,6-sialyltransferase transcript in HepG2 cells
D.A. Aas-Eng, H.C. Åsheim, A. Deggerdal, E. Smeland and S. Funderud (Norway) 166

Reviews

Phosphorylation of the C-terminal domain of RNA polymerase II
M.E. Dahmus (USA) 171
3′-End cleavage and polyadenylation of mRNA precursors
E. Wahle (Switzerland) 183

Regular Papers

The interaction of hedamycin and DC92-B in a sequence selective manner with DNA in intact human cells
V. Murray, A.G. Moore, C. Matias and G. Wickham (Australia) 195
Cloning, sequencing and expression of two isoforms of the murine oct-1 transcription factor
J. Jaffe, M. Hochberg, J. Riss, T. Hasin, L. Reich and R. Laskov (Israel) 201
Expression of basic fibroblast growth factor and fibroblast growth factor receptor genes in cultured rat aortic smooth muscle cells
J.W. Van Neck, J.J. Medina, C. Onnekink, S.M. Schwartz and H.P.J. Bloemers (The Netherlands, USA) 210
Characterization of the polyubiquitin gene in the marine red alga *Gracilaria verrucosa*
Y.-H. Zhou and M.A. Ragan (Canada) 215
dlk, *pG2* and *Pref-1* mRNAs encode similar proteins belonging to the EGF-like superfamily. Identification of polymorphic variants of this RNA
Y.L. Lee, L. Helman, T. Hoffman and J. Laborda (USA) 223
Isolation and expression of rat thymidylate synthase cDNA: Phylogenetic comparison with human and mouse thymidylate synthases
J. Cieśla, K.X.B. Weiner, R.S. Weiner, J.T. Reston, G.F. Maley and F. Maley (Poland, USA) 233
Transcriptional regulation of the *mts1* gene in human lymphoma cells: the role of DNA-methylation
E. Tulchinsky, M. Grigorian, T. Tkatch, G. Georgiev and E. Lukanidin (Denmark, Russian Federation) 243
The CRE consensus sequence in the synapsin I gene promoter region confers constitutive activation but no regulation by cAMP in neuroblastoma cells
C. Hoesche, P. Bartsch and M.W. Kilimann (Germany) 249
Analysis of the primary structure of the chloroplast isozyme of triosephosphate isomerase from rye leaves by protein and cDNA sequencing indicates a eukaryotic origin of its gene
M. Schmidt, I. Svendsen and J. Feierabend (Germany, Denmark) 257
Decay of globin mRNA during megakaryocytic differentiation of erythroleukemic cell line is accomplished through shortening of the poly(A) tail and degradation from the 3′ end of the transcript
N.L. Lumelsky (USA) 265

Short Sequence-Papers

Two transcripts are generated from the Pancreatitis Associated Protein II gene by alternative splicing in the 5′ untranslated region
S. Vasseur, J.-M. Frigerio, N.J. Dusetti, V. Keim, J.-C. Dagorn and J.L. Iovanna (France) 272
Sequence and putative secondary structure of group I introns in the nuclear-encoded ribosomal RNA genes of the fungus *Hymenoscyphus ericae*
K.N. Egger, G. Osmond and J.L. Goodier (Canada) 275
The structural genes for nitric oxide reductase from *Pseudomonas aeruginosa*
H. Arai, Y. Igarashi and T. Kodama (Japan) 279
cDNA structure of rabbit C4b-binding protein α-chain. Preserved sequence motive in complement regulatory protein modules which bind C4b
P. García de Frutos and B. Dahlbäck (Sweden) 285
cDNA encoding a chicken protein (CRP1) with homology to hnRNP type A/B
A. Cvekl, J.B. McDermott and J. Piatigorsky (USA) 290
A homologue of the human MSS1 gene, a positive modulator of HIV-1 gene expression, is massively expressed in *Xenopus* oocytes
W. Nacken, A.J. Kingsman, S.M. Kingsman, F. Sablitzky and C. Sorg (Germany, UK) 293
Xenopus PKN: cloning and sequencing of the cDNA and identification of conserved domains
H. Mukai, K. Mori, H. Takanaga, M. Kitagawa, H. Shibata, M. Shimakawa, M. Miyahara and Y. Ono (Japan) 296

The putative *Drosophila* NMDARA1 gene is located on the second chromosome and is ubiquitously expressed in embryogenesis
A. Pellicena-Pallé and H.K. Salz (USA) 301
The complete nucleotide sequence of the mouse thyroid-specific enhancer-binding protein (T/EBP) gene: extensive identity of the deduced amino acid sequence with the human protein
H. Oguchi, Y.-T. Pan and S. Kimura (USA) 304
Cloning and sequence analysis of human thyroid transcription factor 1.
A. Saiardi, V. Tassi, V. De Filippis and D. Civitareale (Italy) 307
Sequence of the cDNA for the heart/muscle isoform of mouse cytochrome *c* oxidase subunit VIII
A.D. Hegeman, J.S. Brown and M.I. Lomax (USA) 311
Nucleotide sequence of a gene cluster encoding ribosomal proteins in the thermoacidophilic crenarchaeon *Sulfolobus acidocaldarius*
R. Moll, S. Schmidtke and G. Schäfer (Germany) 315
Nucleotide sequence of a *Aspergillus parasiticus* gene strongly repressed by thiamine
J.W. Cary and D. Bhatnagar (USA) 319
Cloning and sequence analysis of the cDNA for bovine mitochondrial translational initiation factor 2
J. Ma, M.A. Farwell, W.A. Burkhart and L.L. Spremulli (USA) 321

Regular Papers

Cloning, nucleotide sequence and expression of the bifunctional dihydrofolate reductase-thymidylate synthase from *Glycine max*
M. Wang, S. Ratnam and J.H. Freisheim (USA) 325
The highly acidic C-terminal region of the yeast initiation factor subunit 2α (eIF-2α) contains casein kinase phosphorylation sites and is essential for maintaining normal regulation of *GCN4*
J. Van den Heuvel, V. Lang, G. Richter, N. Price, L. Peacock, C. Proud and J.E.G. McCarthy (Germany, UK) 337
Guide RNA molecules not engaged in RNA editing form ribonucleoprotein complexes free of mRNA
H.H. Shu, K. Stuart and H.U. Göringer (Germany, USA) 349
The effect of changes in nucleotide sequence coding for the N-terminus on expression levels of ovine growth hormone variants in *Escherichia coli*
O.C. Wallis, A.J. Sami and M. Wallis (UK) 360
Rat genomic structure of amidophosphoribosyltransferase, cDNA sequence of aminoimidazole ribonucleotide carboxylase, and cell cycle-dependent expression of these two physically linked genes
H. Iwahana, S. Honda, T. Tsujisawa, Y. Takahashi, K. Adzuma, R. Katashima, T. Yamaoka, M. Moritani, K. Yoshimoto and M. Itakura (Japan) 369
Identification of a third ubiquitous calpain species – chicken muscle expresses four distinct calpains
H. Sorimachi, T. Tsukahara, M. Okada-Ban, H. Sugita, S. Ishiura and K. Suzuki (Japan) 381
Correlation between codon usage, regional genomic nucleotide composition, and amino acid composition in the cytochrome *P*-450 gene superfamily
T.D. Porter (USA) 394
Selective expression of the *tba-1* α tubulin gene in a set of mechanosensory and motor neurons during the development of *Caenorhabditis elegans*
T. Fukushige, H. Yasuda and S.S. Siddiqui (Japan) 401
Down-regulation of CFTR expression in an HT29-derived cell line by stable antisense RNA production
C.J.C. Wardle and A. Harris (UK) 417

Short-Sequence Papers

Molecular cloning and expression of human ribonuclease 4 cDNA
M. Seno, J.-i. Futami, Y. Tsushima, K. Akutagawa, M. Kosaka, H. Tada and H. Yamada (Japan) 424
Translation initiation factor eIF-4E from *Drosophila*: cDNA sequence and expression of the gene
G. Hernández and J.M. Sierra (Spain) 427
The mouse homologue of the HTLV-I tax responsive element binding protein TAXREB107 is a highly conserved gene which may regulate some basal cellular functions
W. Nacken, M. Klempt and C. Sorg (Germany) 432
cDNA cloning for a putative cysteine proteinase from developing seeds of soybean
V.H. Nong, C. Becker and K. Müntz (Germany, Viet Nam) 435
Cloning and sequence analysis of a neuropeptide Y/peptide YY receptor Y1 cDNA from *Xenopus laevis*
A.G. Blomqvist, E.W. Roubos, D. Larhammar and G.J.M. Martens (Sweden, The Netherlands) 439
Highly conserved genes coding for eukaryotic translation initiation factor eIF-4A of tobacco have specific alterations in functional motifs
K.A. Brander, T. Mandel, G.W. Owttrim and C. Kuhlemeier (Switzerland, Canada) 442

Cumulative Contents, Vol. 1261 445

Author Index 449